Proposed Item for Biobased Designation

The following biobased product information has been collected to support item designation by USDA for the Federal Biobased Product Preferred Procurement Program (FB4P). This summary reflects data available as of July 26, 2006.

Title: Lip Care Products/Balms

Description: Material to replenish the moisture in lips to promote better skin health of the lip.

Manufacturers Identified: 10 manufacturers producing Lip Care Products/Balms have been identified through internet searches, manufacturer's directories, trade associations, and company submissions.

Industry Associations Investigated: The following industry associations have been investigated for member companies producing Lip Care Products/Balms:

- Organic Consumers Association
- American Chemical Society
- Chemical Manufacturers Association
- Chemical Specialties Manufacturers Association
- Cosmetic Ingredient Review
- Food and Drug Law Institute
- National Association of Chemical Distributors
- Pharmaceuticals Research and Manufacturers of America
- Society of Cosmetic Chemists

Commercially Available Products Identified: Of the manufacturers identified, 28 Lip Care Products/Balms are commercially available on the market.

Product Information Collected: Specific product information including company contact, intended use, biobased content, and performance characteristics have been collected on 5 Lip Care Products/Balms.

Industry Performance Standards: Product information submitted by biobased manufacturers indicate that have typically been tested to the following industry standards:

- USP Stability Test

Samples Tested for Biobased Content: 2 samples of Lip Care Products/Balms have been submitted to independent laboratories for biobased content testing as specified by ASTM standard D6866-04.

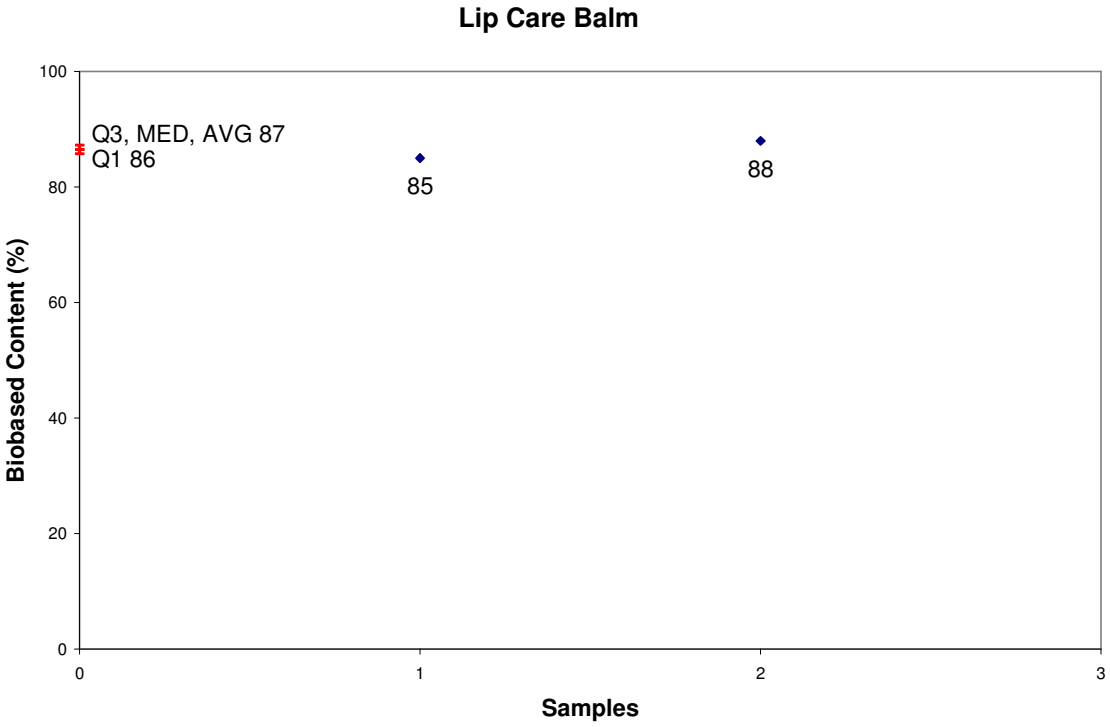
Biobased Content Data: Results from biobased content testing of Lip Care Products/Balms indicate a range of content percentages from 85% minimum to 88% maximum biobased content

as defined by ASTM D 6866-04. A detailed distribution of biobased content levels is included as Appendix A.

Products Submitted for BEES Analysis: Life-cycle cost and environmental effect data for 2 Lip Care Products/Balms have been submitted to NIST for BEES analysis.

BEES Analysis: The life-cycle costs of the submitted Lip Care Products/Balms range from $1071.00 minimum to $2356.20 maximum per usage unit. The environmental scores range from 0.1484 minimum to 0.1778 maximum. A detailed summary of the BEES results is included as Appendix B.

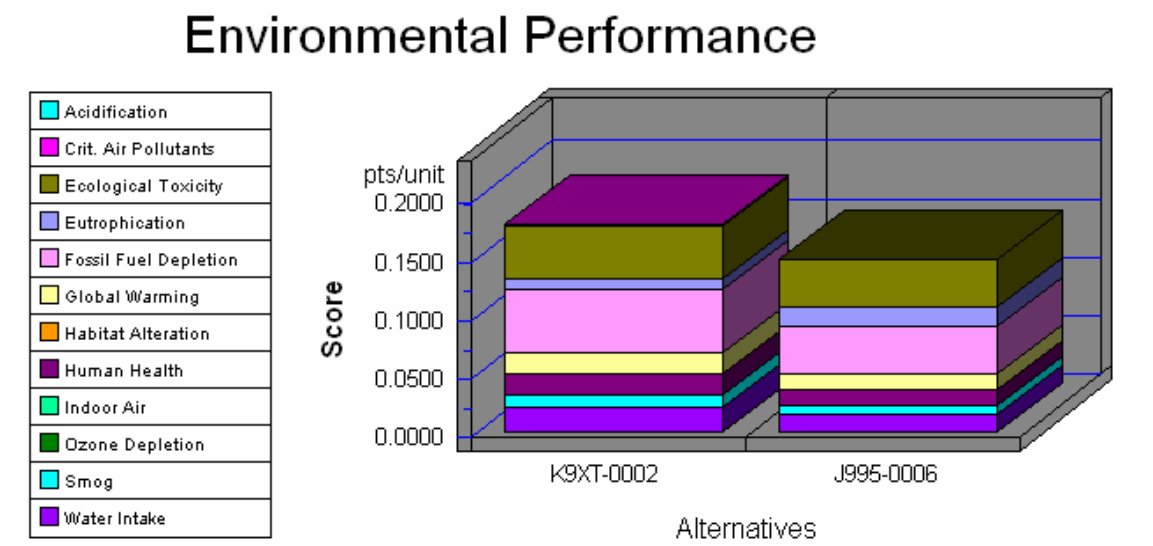
Appendix A - Biobased Content Data



	Manufacturers Identified	Products Identified	C14	BEES
1	K9XT	K9XT-0004	85	
2	K9XT	K9XT-0002	88	yes
3	J995	J995-0006		yes

Appendix B - BEES Analysis Results

Functional Unit: **1 Case of Lip Balm (2380 tubes)**

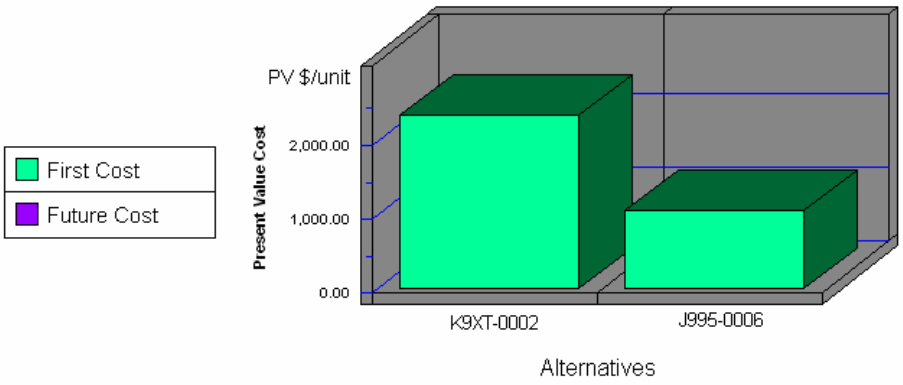


Note: Lower values are better

Category	K9XT-0002	J995-0006
Acidification--5%	0.0000	0.0000
Crit. Air Pollutants--6%	0.0010	0.0007
Ecolog. Toxicity--11%	0.0447	0.0409
Eutrophication--5%	0.0101	0.0157
Fossil Fuel Depl.--5%	0.0533	0.0412
Global Warming--16%	0.0182	0.0136
Habitat Alteration--16%	0.0000	0.0000
Human Health--11%	0.0180	0.0128
Indoor Air--11%	0.0000	0.0000
Ozone Depletion--5%	0.0000	0.0000
Smog--6%	0.0105	0.0076
Water Intake--3%	0.0220	0.0159
Sum	0.1778	0.1484

Appendix B (continued)

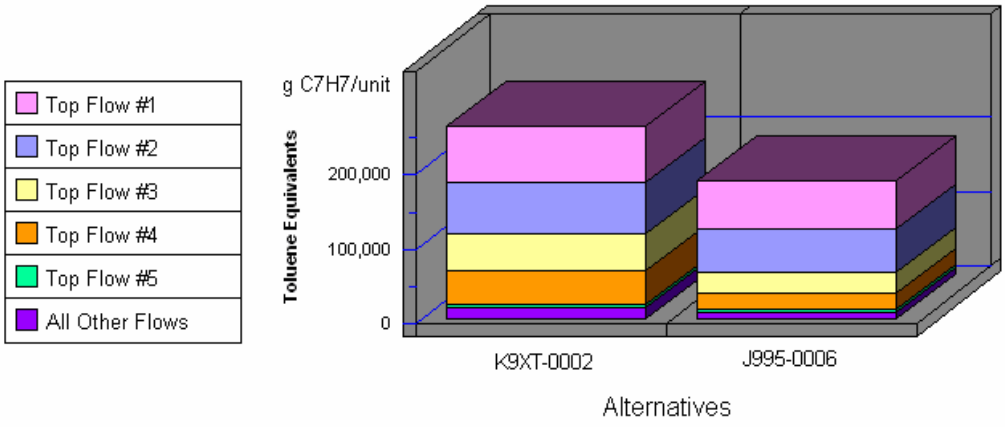
Economic Performance



Category	K9XT-0002	J995-0006
First Cost	2356.20	1071.00
Future Cost-- 3.9%	0.00	0.00
Sum	2356.20	1071.00

*No significant/quantifiable durability differences were identified among competing alternatives. Therefore, future costs were not calculated.

Human Health by Sorted Flows*



Note: Lower values are better

Category	K9XT-0002	J995-0006
Cancer--(w) Arsenic (As3+, As5+	75,209.65	63,850.75
Cancer--(w) Phenol (C6H5OH)	68,954.80	59,092.66
Cancer--(a) Dioxins (unspecifie	50,546.31	26,498.52
Cancer--(a) Arsenic (As)	45,046.97	22,383.59
Noncancer--(a) Mercury (Hg)	4,428.69	2,926.78
All Others	15,414.06	10,657.67
Sum	259,600.48	185,409.98

*Sorted by five topmost flows for worst-scoring product